THE TECH

VOL. XXVIII. NO. 64 BOSTON, MASS., FRIDAY, APRIL 2, 1909 PRICE THREE CENTS

CHEMISTRY THESES ARE ANNOUNCED

C. S. Robinson Continuing an Investigation on Broken Rails

MANY ARE OF INTEREST

J. N. Stephenson Working on Scheme for Illustrating Course of Lectures

Prof. Henry P. Talbot has announced the complete test of the subjects of the theses in Courses V and X, by this years seniors.

There are many of these theses worthy of attention. J. N. Stephenson has for a subject "Experiments for the Illustration of a Course of Lectures on the Principles of Organic Chemistry." His idea is put in shape the many principles known and worked on in investigations but which have not been put in shape for demonstration.

L. B. Beers is attempting to work out a scheme which will show whether the coloring used in food products is one of the six of those now sanctioned by the government.

C. S. Robinson is continuing the investigatioin begun last year by Rufus Wint, an assistant in the Qualitative Analysis laboratory, that is the effect of manganese sulphide on steel rails. The work is being carried on under the direction of Dr. F. H. Fay who is an eminent authority on broken rails and steel in general. Dr. Fay was called into consulation at the time of the wreck on the newly electrified part of the New York Central and Hudson River railroad.

L. R. Forrest is working on the decomposition of woolgrease and its constituents. If those products are determined it may be possible to find a new commercial use for the products from the distillation of woolgrease.

THESIS SUBJECTS.

COURSE X.—Adams, E. Q., "The Equilibrium of Silver Nitrate with Silver Nitrate, Metallic Silver and Nitric Oxide;" Beers, L. G., "The Identification of Artificial Coloring Matters in Foods;" Blankenbuehler, R. E., "The Separation and Identification of Mordant Colors on Textiles;" Bradley Dewey, "A New Apparatus for the Determination of Carbon Dioxide in Flue Gas;" Byron, W. H., "A Comparison of Methods for the Determination of Soluble Solids in Tannins;" Campbell, C. L., "A New Method for Determining the Quality of Galvanized Iron;" Elbert, J. J., "A New Method for Preparation of Caustic Soda from Sodium Sulphate;" Fay, T., Jr., "The upon the Corrosion of Steam Boilers;" Forrest, L. R., "Investigation of the Hydrocarbons from the Distillation of Wool Grease;" Gram, C. W., "Free Eneergy Expressed in the Reaction CaO $+3C=CaC_2+CO$''; Paine, H. W., "A Study of the Efficiency of the Howard Dust Chamber at the Merrimac Chemical Works;" Robinson, C. S., "Microscopic Investigation of Broken Steel Rails;" Pritchard, C. M., "The Influence of the Content of Calcium and Magnesium upon the Physical Properties of Glass;" Soule, L. R., "A Comparison of Various Methods of Rubber Analysis and the Analysis of Some Rubber Articles used in Chemical Processes;" Stephenson, J. N., "Experiments for the Illustration of a Course of Lectures on the Principles of Organic Chemistry;" Wells, E. E., "Electrolytic Determination of Zinc."

TECH MAN SELECTED

The Paris prize committee of the American Society of Beaux Arts architects have announced that Louis Svarz 1909 of the Institute architectural department, is one of the five selected in the recent twelve-hour preliminary competition for the Paris prize. Mr. Svarz will take the twenty-four hour final problem on Saturday. The Paris prize

(Continued on page 3.)

DEATH OF A WORLD IS INEVITABLE

May Come through Accident, Paralysis, Old Age, or Loss of Sun

VENUS IS PARALYZED

Sunward Hemisphere Baked, Starward Frozen—Life on Each is Extinct

"Death of a world is inevitable." Professor Percival Lowell made this startling statement in the last of his lectures on Cosmic Physics yesterday afternoon. Professor Lowell asserts that every world must sometime meet its end, due to one of many causes, of which he mentioned four in particular.

Death may be due to accident. Dark stars are ever roaming about the heavens unrestricted by the laws that govern the planets. Should the sun be struck by one of these, the immense heat generated by the contact would be sufficient to burn up and de-orbit the planet. Should the planet itself be struck, it would be destroyed bodily.

Another possible death to a planet is through paralysis, brought about by frictional action of planets upon each other. Mercury and Venus are thus faced in perpetuity to the sun. The sunward hemisphere is thus baked, and the starward hemisphere frozen. Life ceases upon the planet, and the water is evaporated in the heated hemisphere and deposited upon the other hemisphere.

Death may be due to "heart failure" or old age. Due to kinetic energy, particles are constantly flying off into space from the earth's atmosphere. The lighter gases will be the first to go, and in time all heated particles will leave will ultimately be depleted into space, and the planet will be left a dessicated mummy.

The last death to occur in order of time will be due to the sun's going out. Ultimately the sun must inevitably contract to solid form, and will radiate away its heat. With the last flicks of the sun's splendor, the heart of the solar system will again become a dark and extinct body. Ghostlike the heavenly bodies will rove until another collision causes the heat necessary to create another celestial system.

NO ENTERTAINMENT

Committee Unable to Secure a Speaker for This Evening

There will be no Friday evening entertainment in the Union tonight. The entertainment committee regrets to announce that they have been unable to secure a speaker for the evening.

Several evenings have been arranged for the future, however. On April 9 Mr. F. B. Sears will speak on "Banking." On the following Friday the committee have been fortunate in securing the services of Mr. Lyman Underwood, the eminent lecturer. The subject of Mr. Underwood's talk will be "Hunting Big Game with Canoe and Camera." Mr. Underwood is already known to Tech men from his several talks to the Biological Society and he is sure to be well received.

April 23, the next Friday, comes in Prom Week and accordingly there will be no entertainment. On April 30, District-Attorney Hill is scheduled to speak on "The Young Man in Public Office." This may be the last evening of the year except for a grand smoker which is to be held in the Union on the night of the Intercollegiate meet.

CIVILS FAVORITES IN RUN TOMORROW

Mechanical and Electrical Section is Picked for Second

FINISH TO BE AT FIELD

Stars are to Run and Close Race is Expected—Howland is Out for Record

Tomorrow the much discussed intercourse will be had over the regular Technology cross country course. The race promises to far exceed all the previous runs of the Cross-country club this spring. The finish will be at the Field at about 3:45 o'clock, and an exiting time is expected. The first six men to finish will get ribbons bearing the number of the place in which they finished. The men are to take the 2:31 train from the Back Bay station to the Highland station.

The courses, as have been announced, have been divided into four sections. Capt. Jacobs has charge of the civil and sanitary engineers; C. P. Eldred 1911, chase-captain of the Hare and Hounds, leads the mechanicals and electricians; former chase-captain Stephenson heads all the chemists, while the rest are under ex-captain Ellis. All men who intend to run should report at once to their respective captains.

The civil and sanitary engineers, who won the race last year, are considered to be the favorites. This section comprises many men who have made names as excellent cross-country men. In addition to Captain Jacobs, there is self to be the best man at the Institute in long distance runs, also, McCarthy, of last fall's cross-country team. Batchelder 1909, Van Alystine 1911, and Watkins 1912, can be figured upon to finish well up among the leaders.

The mechanicals and electricals under C. P. Eldred 1911 are fully expected to give Capt. Jacobs' men a good race. This section is mostly made up of men comparatively new to the game, but who have shown up well in the recent Hare and Hound's runs. The best men of the freshman class are in this section, and a chance is offered to see what they are capable of doing in actual racing. Captain Eldred reports the following men who are to run with him: Magee 1910, Cartwright 1912, Jenks 1911, Preston 1911, White 1911, West 1911, McCreadie 1911, DeWitt 1911, Tuher 1912, Hersey 1909, Rhodes 1912 Benson 1912, Huber 1910, Porter 1910, Herreshoff 1912, and Russell 1912. With such a strong and well balanced team, the Mechanicals and Electricals will surely prove strong factors at the finish.

The chemistry courses under Stephenson 1909, and remaining courses under Ellis 1909, while containing not so many men as the above mentioned two sections, will surely not be found far behind at the finish. The chemistry courses are to be represented by such men as Campbell 1909, Cooley 1911 and Hyde 1912. Ex-captain Ellis' section is composed of such men as MacKenzie 1911, McAllen 19911, Smith 1911, and Whipple 1912.

The Hare and Hounds run a week from Saturday will undoubtedly be held at Waltham. There is a splendid course out there and Assistant Chase Captain West promises a good run. Notices will be posted later.

CONCERT AT NATICK

The musical clubs will sing their spring concert songs for the first time tonight at Natick. The Mandolin Club is as usual the best of the three clubs, and will present two or three unique features at Natick. The Glee Club will sing some catchy songs, and the Banjo Club has improved wonderfully. The train leaves Trinity Place at 6:20 p. m., and a large number of men are expected to go out with the clubs.

SOPHOMORES AND FRESHMEN CLASH

Class Teams Tomorrow Line Up in First Practice Game

SQUADS SHOW UP WILL

Nearly All of Last Years Crack 1911 Team Will Play This Year

Baseball work at the Field is progressing rapidly. On Saturday at 3.30 the freshmen and sophomores will line up for a scrub game and most all the candidates for both teams will be given a trying out.

Both squads are working hard in preparation for the first game which comes in a few weeks. Chances so far seem to favor the upper classmen on account of their longer experience and the fact that nearly all of last year's star team has returned, with the addition of several new men of promise. The services of Johnson, the star third baseman, and of Hopkins, fielder, will be missed.

The freshmen team has shown considerable promise, but are under the disadvantage of having a late start and not knowing each other. Last year's freshmen squad, however, developed a surprise party for their rivals and the freshmen have strong hopes.

The sophomores hold practise on Mondays, Wednesdays and Fridays at 4 o'clock, and the freshmen on Tuesdays, Thursdays and Saturdays.

Capt. L. G. Odell, Manager T. F. McLaughlin, A. W. Yearance, L. DeFlorez, L. G. Metcalf, D. R. Stevens, H. C. Robinson and P. H. Pearson are among those who have reported for the 1911 team to date, and many others have signified their intention of coming out next week.

BIOLOGICAL SOCIETY

"Engineering Work of the Massachusetts State Boaord of Health" was the subject of an interesting talk last evening to the members of the Biological Society by Charles A. Saville 1906.

The great advance in sanitary work during the last few years was taken up in considerable detail, and the intimate connection of Technology's graduates and professors was commented on.

M. E. SOCIETY TRIP

The Mechanical Engineering Society will go to the works of the Hood Rubber Company in Waterbury tomorrow afternoon. It is very difficult to obtain the right to visit a place where rubber products are manufactured, and a large crowd is expected to go. Course II men desirous of taking the trip should sign the paper in Eng. A.

On Wednesday evening, April 7, the Society will hold its regular April meeting, and is particularly fortunate in having two able men to speak. Mr. Bailey, of the Arthur D. Little Company, will speak on coal and its uses, while Mr. Emmons, connected with the Heine Boiler Company, will speak on Heine boilers, and the methods used in their construction. The talk will be illustrated with lantern slides.

The first speaker will start his talk about 7:45.

CALENDAR

FRIDAY, APRIL 2.

4.15 P. M.—Mandolin Club Rehearsal.

FRIDAY, APRIL 2.

6.00 P. M.—Y. M. C. A. Dinner at Union.

SATURDAY, APRIL 3.

3.00 P. M.—Inter-class cross-country run.

3.30 P. M.—Baseball, 1911-1912.

3.00 P. M.—Track work at Field.

THE TECH

Published every Monday, Wednesday, and Friday during the college year by students of the Massachusetts Institute of Technology.

Entered as second-class matter October 6, 1904, at the post office at Boston, Mass., under the Act. of Congress of March 3, 1879.

Editorial Staff.

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R. H RANGER 1911 — *Managing Editor*
W. D. GREEN 1909 — *Societies Editor*
H. M. DAVIS 1911 — *Institute Editor*
J. N. STEPHENSON 1909 — *Athletic Editor*

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D. R. STEVENS 1911 — *Associate Editor*
J. I. MURRAY 1912, G. M. KEITH 1912 — *News*
S. C. NEFF 1912 — *Business*

All communications regarding advertisements should be addressed to the Business Manager. Regarding subscriptions address the Circulation Manager

Subscriptions within the Boston Postal District and outside of United States must be accompanied by postage at the rate of one cent for each copy.

Subscription - - - $1.50 per year in advance. Single Copies 3 Cents.

Printed by Old Colony Press, Boston.

Friday, April 2, 1909.

The world will end.

All aboard for the Inter-course Cross Country Race.

Clarence E. Whitney, president of the Technology Club of Hartford, believes the Corporation made a mistake in calling our social gathering place the "Union," it should have been designated, he says, the "Open Shop."

COMMUNICATIONS

A WIRELESS SOCIETY

To the Editor of The Tech:

There are a large number of men now at the Institute who are more or less interested in wireless telegraphy and it is the aim of some of the more enthusiastic to try and form a "wireless" society. The advantages of such a club would be innumberable and considerable help and information could be gained from the results obtained by the different members.

The main object of the society would be, first, for progressive investigations and advancement of the science of radio telegraphy and telephony; second, for the mutual advantage derived from the co-operation of its members in the work and experiments; third, for the discouraging of needless amateur interference with government operation, private or commercial messages; fourth, to discourage any attempt made by Congress or other legislative bodies to pass needless or unjust legislation, infringing upon the rights of properly conducted experiments, or the transmission of messages when not interfering or impeding with the government or other wireless companies' business; fifth, for the immediate recognition of the so called "interference signals" and encouraging all young wireless operators not in the above society to so conduct their experiments as not to intrude upon the successful transmission of regular trade messages; sixth, for the general encouragement, advancement and uplifting of the science of radio-telegraphy and telephony, or any applications or branches connected with the above named sciences.

It is expected, if the society reaches a reasonable membership, that lectures and talks will be given, from time to time, upon topics or investigations connected with the wireless art. This society will present to its members unusual opportunities and advantages and it is hoped that all men interested will see fit to support such an organization.

All men interested in such an undertaking meet in the small reading room of the Union, this afternoon, at four o'clock to discuss the proposed plans.

E. B. MOORE, 1912.
A. P. MORAN, 1912.
E. M. MASON. 1912.

Tne following was smuggled surreptitiously into The Tech office enclosed in a blood-red envelope:

Room C, Union,
April 1, 1909.

Editor of The Tech:

Let The Tech's thirst be satiated. Let Technique's thirst which, though, is not for blood, be satiated also. Let everybody's thirst be satiated.

Technique has a chip on its shoulder—a chip from the bat of Tech-Technique ball games dating back into the obscure ages. Therefore we must needs accept the lady-like challenge of our blood-thirsty contemporaries for the sake of our respected progenitors if for no other reason. But let it be writ in full-caps that there are OTHER reasons. Technique welcomes a bone of contention which it may be allowed to gnaw uninterruptedly until the marrow's gone, so count on us.

While Technique will abide by most any rules, it begs leave to amend a few of the suggestions of The Tech. Let us not appear on the Field disguised as gentlemen, for as the contest will come off early in Junior Week, we would remind our brothers on the floor below that enough time to have our boiled shirts reboiled before the Prom would not be available. Hence, let us go groomed more negligee, say Directoires or something like that. Let us have freedom of the dress as well as of the press. Another amendment would be to have femininity stop with the lady-fingers. This is merely because Technique's fifteen would prefer to put in its extra moments running bases rather than practicing new methods of conversation.

For further arrangement of details, we would suggest that each party delegate a plenipotentiary and a second to meet and conclude the matter, as the remaining plans are of little public interest and were better settled in person.

We await with serene confidence the moment when we, bat in hand, shall face our awful adversaries with our battle slogan, "Lay on MacDuff," and damned be him who first slides home. Enough.

Let us play ball.

TECHNIQUE 1910.

TRIGLYPHS WIN

In a close and exciting game of baseball, Wednesday afternoon, between the Institute Triglyphs and the Technology Gargoyles, rival ateliers in the Architectural Department, the Triglyphs succeeded in getting 11 runs across the plate to the Gargoyles' 8.

Owing to lack of space and some other things it is impossible for the Tech to publish the acount kindly furnished by the players, which ended: N. B.—Each pitcher pitched with one hand."

The line-ups follow:

Chandler, Seibert, p.	p., French
Flagg, Manager, 1b.	1b., Bunn
Clarke, 2b.	2b., Hannaford
Burton, 3b.	3b., Walker
Dow, s.s.	s.s., Bullenlacher
Menke, l.f.	l.f., Shaffeau
Selbert, Burnham, c.f.	c.f., Svary, Mgr.
Davis, Bounetheau, r.f.	r.f., Hogarth
Myers, sub.	

Sick list, Dolke; official scorer, Baker; official photographer, King; water boy, Kelley; umpire, Northrup; disinterested parties, all others.

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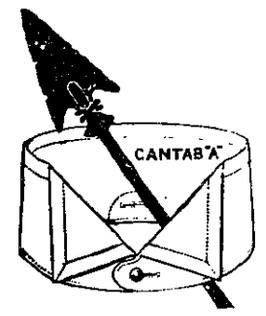

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83 NEWBURY STREET, BOSTON

The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

THE REVIEW is published during January, April, July, and October. Communications should be addressed to The TECHNOLOGY REVIEW, 83 Newbury St., Boston.

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TECH MAN SELECTED

(Continued from page 1.)

is the gift of Lloyd Warren, Esq. The entrants must be under twenty-seven years of age and the winner will receive $250 quarterly for two and a half years, dating upon his departure for Europe. He is expected to render at least eight projects in the first class of the Ecole des Beaux Arts, besides other work which the Society may specify, and he must spend at least two and a half years abroad.

TECH OUTCLASSED

Boston Y. M. C. A. Easily Outdoes Institute Gym Team

Technology was easily outclassed in the dual gym meet held with Boston Y. M. C. A. in the latters gym, Wednesday evening. No points were awarded for the different events, but the work of the Y. M. C. A. team was far superior to that of the Tech aggregation.

The program consisted of nine events. One of the features was a German cavalry dual between Tucker and Inger, both of the Y. M. C. A. The bout was interesting to watch and was declared a draw.

The work of the Y. M. C. A. team on the various pieces of apparatus was exceptionally good. Benzie and Brown easily excelling all the other men on the floor. Benzie is the best all-round gymnast in New England, having won more first places than any other man in gymnastic work. He has been a member of the Y. M. C. A. team for five years and was on the English team which won the championship of the continent. Brown and Jackson of the Y. M. C. A. with W. D. Allen 1911, and Cap. H. S. Gott 1910, of the Tech team showed up well on the horizontal bar work, while Jackson and Wilson of the Institute squad excelled on the mat.

The team:

Y. M. C. A.—C. P. Mellendy, H. M. Eager, R. P. Jackson, G. Benzie, C. F. Brown, W. L. Blake, R. E. Gourlie, B. D. Solomon.

Technology—R. L. Cary, R. C. Jacobs, A. Hague, C. W. Wilson, H. S. Gott, W. D. Allen, J. F. Alter, S. H. Seelye.

NOMINATIONS FOR A. A.

Four nominations for the vacancy from 1911 on the Athletic Association were received by the class directors and discussed at a meeting yesterday. The nominations were for C. P. Eldred, C. H. S. Merrill, L. G. Fitsher and H. S. Smith.

Only five men of the board of directors were present at the meeting and these could not come to any definite decision. It was moved that the matter be laid over until another meeting next Monday, when the nominations for the Institute Committee vacancy can be discussed at the same time. The meeting will be held in the Union at 1 o'clock and will be open to the class.

Nominations for the Institute Committee must be signed by ten men and left at the cage on or before Saturday at 1 o'clock.

Y. M. C. A. DINNER

Technology Y. M. C. A. will hold a dinner tonight at the Union, at which a big crowd is expected.

The plans for the coming year will be discussed, especially regarding what can be done towards making the Association a real live part of the student activities, and what can be done towards procuring a secretary to lead the work of the Association, so as to make it a help to the Institute.

Excellent speakers have been arranged for. Ex-Governer G. H. Utter of R. I., and E. C. Worman, college secretary of R. I. and Mass., will show something of the possibilities of the work here at Tech. As no regular fee or membership has been asked from the students during the past year, everyone is asked to feel himself as a part of the Association, and show their interest and support by being present. The undergraduate body especially is urged to be there, as they will have most to do with the work during the coming year. Members of the faculty interested in the work of the Association are asked to be present and hear what the possibilities of the work here among the student body are, and of hom much use a well organized Association can be.

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PEABODY GETS PLACE

Mayor Hibbard has announced that he has received the acceptance of Robert S. Peabody to his offer of the vacant position on the park commission. The mayor will send Mr. Peabody's name to the board of aldermen on Monday.

Mr. Peabody is a member of the firm of Peabody & Stearns, architects, of the Exchange building. He is a member of the Technology corporation and a former president of the Boston Society of Architects.

NOTICES

Brookline H. S. Club meeting at 67 Davis avenue, Brookline, Saturday, April 3.

CATHOLICS.—Members of the Catholic Club will receive communion at the eight o'clock Mass. at the Cathedral of the Holy Cross, on Washington street, Sunday, April 4th. Place of meeting will be at the Cathedral.

COURSE IV.—Exercises in Shades and Shadows will be held in room 40A, Pierce building, Tuseday, 12-1; Friday, 12-1.

The first exercise will be on April 3. Bring to this exercise T-square, 45 degree triangle, instruments, scale, etc. Paper will be furnished.

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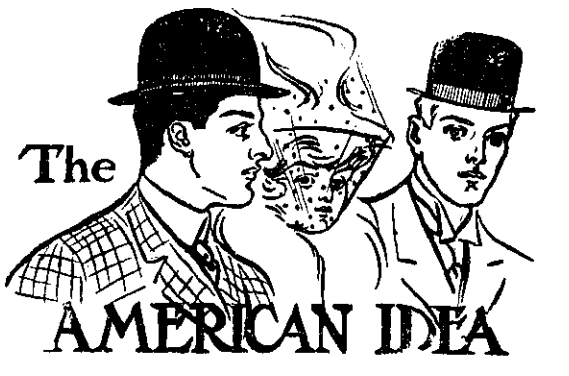

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